

WHAT IS CLAIMED IS:

1. A green light-emitting phosphor for a display,
comprising a manganese-activated zinc silicate phosphor and
5 being excited by an electron beam whose acceleration voltage
is 15 kV or less to emit green light,

wherein the manganese-activated zinc silicate phosphor
is composed of particles having an average particle size of 1.0
to 2.0 μm .

10 2. The green light-emitting phosphor for a display as
set forth in claim 1, wherein a 50%D value of a particle size
distribution that a weight-integrated distribution of a
particle size of the manganese-activated zinc silicate phosphor
is 50%, is 2.0 to 3.0 μm .

15 3. The green light-emitting phosphor for a display as
set forth in claim 2, wherein a ratio of the 50%D value of the
particle size distribution to the average particle size of the
manganese-activated zinc silicate phosphor is 1.0 to 2.0.

20 4. The green light-emitting phosphor for a display as
set forth in any one of claims 1 through 3, wherein the
manganese-activated zinc silicate phosphor has an afterglow
time of 8 ms or less.

5. A field-emission display, comprising:
a phosphor layer including a blue light-emitting phosphor
25 layer, a green light-emitting phosphor layer and a red
light-emitting phosphor layer;

an electron emitting source which emits an electron beam
having an acceleration voltage of 15 kV or less onto the phosphor

layer to make it to emit light; and

an envelope which vacuum-seals the electron emitting source and the phosphor layer,

wherein the green light-emitting phosphor layer includes
5 the green light-emitting phosphor for a display as set forth in any one of claims 1 to 4.

6. The field-emission display as set forth in claim 5, wherein the green light-emitting phosphor layer has a thickness of 1 to 10 μm .